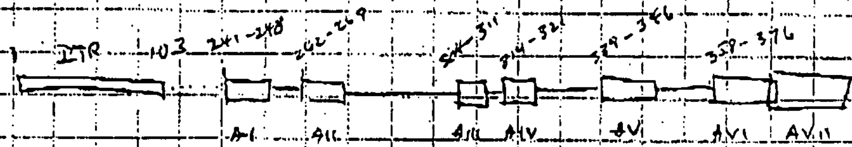
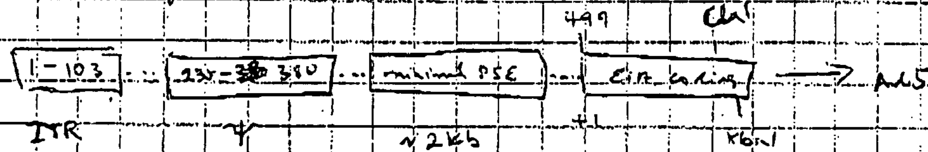
In designing the prostate-specific Ad 5 (Ad5 PSE) it did library work on E1A enhancer and the Ψ signal (packaging). There are 6 A-rich sequences for Ψ and they can be moved to the left up against the ITR on left end of the genome.



probable element I of enhancer at 195-205 can be deleted

∴ link PCR of ITR - Ψ - minimal enhancer - E1A



drops out of Ad 5 235 - 103 = 132
490 - 380 = 110
but adds back ~2kb, meaning 2.0 kb for minimal PSE
∴ total add 1.8 kb
Do this by PCR replacing wt in pXC1
~~pAB~~ or
pBHG11 drops ~3kb in ΔE3

3.0 - 1.8 = 1.2 to use for recall, safety, or containment
also 5% overpackage size (0.05) × 35 kb = 1750 b
∴ absolute max = 1.2 + 1.7 kb = 2.9
∴ use a smaller enhancer for HSV-tk or cytosine deaminase
This should be minimal PSE or elements responsive to E1A

To Page No.____

Witnessed & Understood by me, [signature] Date

Invented by D. Henderson Date

Recorded by

BEST AVAILABLE COPY

Did minis 12 ea of plate 8, 12, 16 ligation 15-05.
What should they be cut with?

1-12 from plate 8: KpnI or ClaI

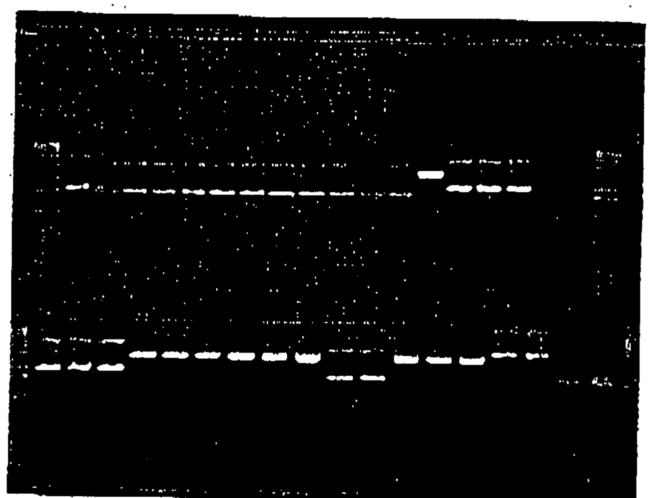
13-24 from plate 12: ClaI

25-36 from plate 16: ClaI

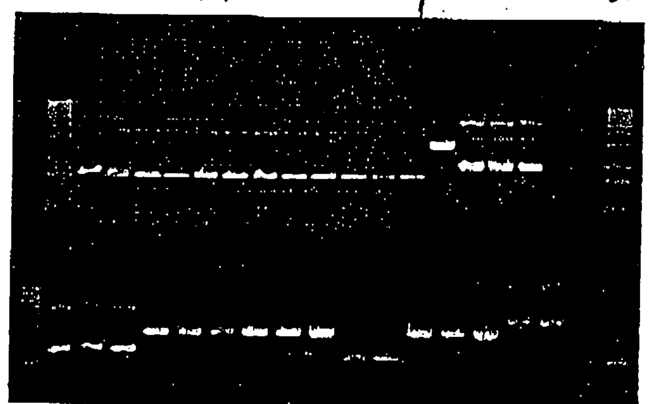
all w/ ClaI

use 4 µl DNA

1-12 | 12-18



19 - 24 | 25 — 36



Kit from Microbix came in. So left 293 passage 25 except no dry ice. Everything was warm.

To Page No.

Witnessed & Understood by me, [illegible]

Invented by

Recorded by [illegible]

Date